

Fig. 1

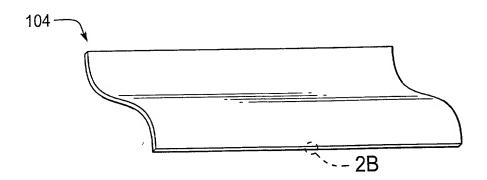


Fig. 2A

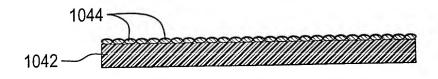


Fig. 2B

## Anodic Reaction

## Cathodic Reaction

$$O_2(g) + M_{\alpha}(s)$$
  $O_2M_{\alpha}(s)$  Adsorption 
$$O_2M_{\alpha}(s) + \beta e^- \longrightarrow [O^--O-M_{\alpha}]$$
 Charge Transfer & Surface Dissociation 
$$[O^--O-M_{\alpha}] + \gamma H^+ \longrightarrow H_2O + OM_{\alpha}$$
 Diffusion

Fig. 3

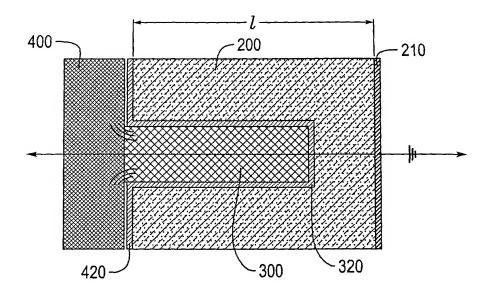


Fig. 4

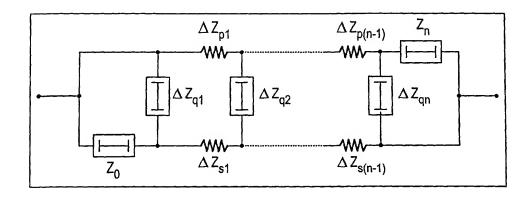


Fig. 5

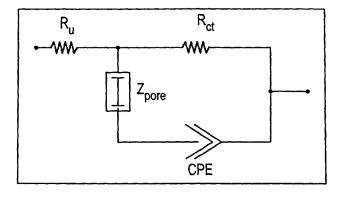


Fig. 6

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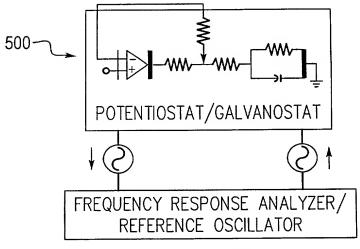


Fig. 7A

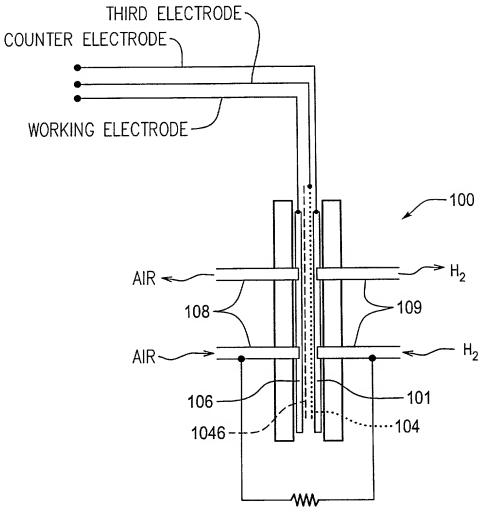
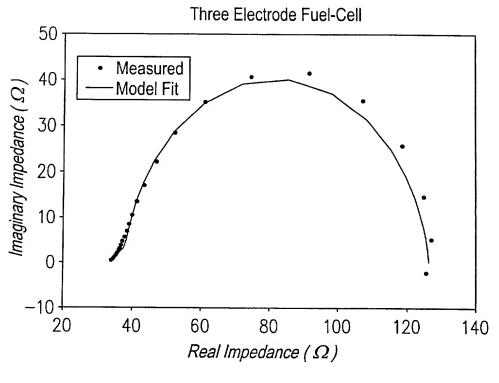


Fig. 7B





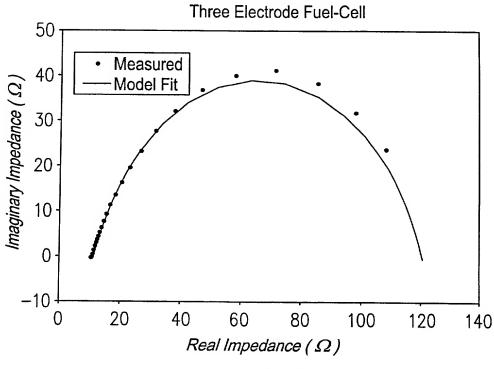


Fig. 9

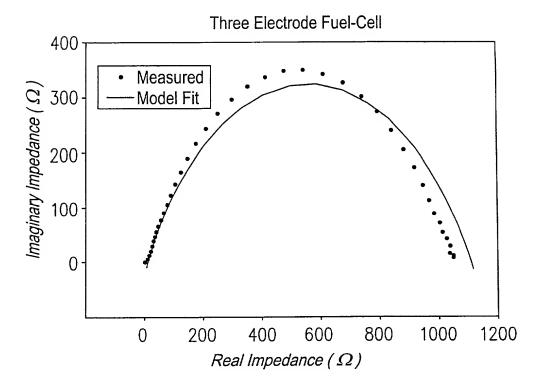


Fig. 10

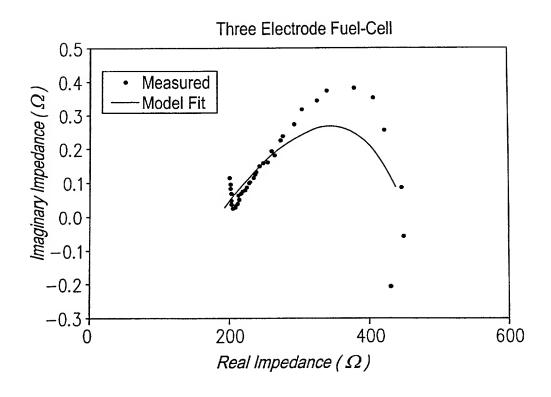


Fig. 11

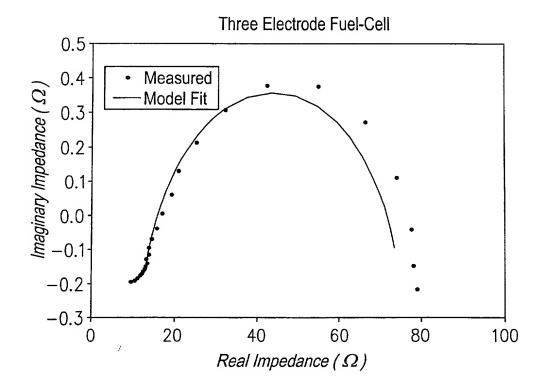


Fig. 12